Human Factors Research and Engineering

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Human Factors Community of Practice

FAA Lines of Business (LOBs)

Air Traffic Organization

Program Management Office
En Route
Terminal
System Operations

Safety and Technical Training

Technical Operations

NextGen (ANG)

Human Factors Division

HQ Programs
Weather
Advanced Concepts
Technology Development

Technical Center
Human Factors Laboratory

Aviation Safety (AVS)

Chief Sci. & Tech. Advisors
Flight Deck
Aircraft Maintenance

Flight Standards
UAS

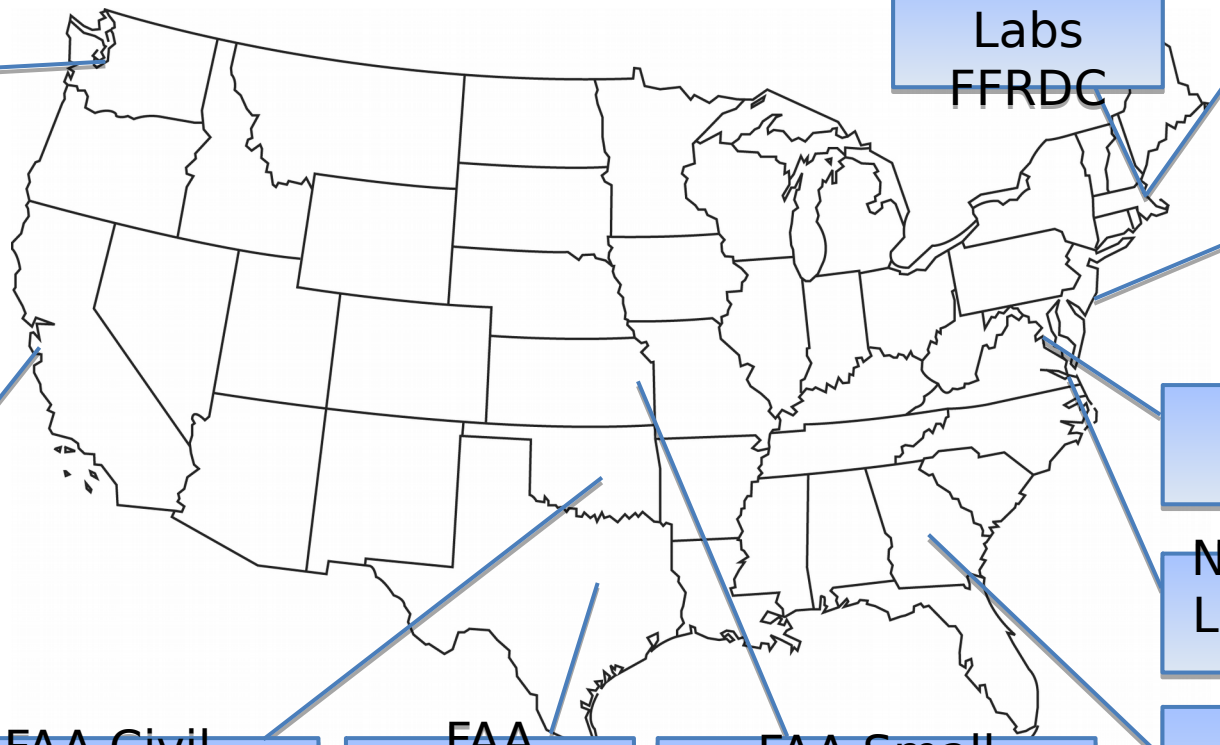
Aircraft Certification
Transport Airplane Directorate
Small Airplane Directorate
Rotorcraft Directorate

Civil Aerospace Medical Institute (CAMI)

FAA

NEXTGEN

U.S. Government Civil Aviation Human Factors Expertise



FAA Aircraft Certification Office; Transport Aircraft Directorate

NASA Ames

Lincoln Labs FFRDC

DOT Volpe

FAA Technical Center

FAA HQ; MITRE CAASD FFRDC

NASA Langley

FAA Aircraft Certification Office

FAA Small Aircraft Directorate

FAA Rotorcraft Directorate

FAA Civil Aerospace Medical Institute (CAMI)

FAA

NextGEN

Portfolio of R&D Programs

	Research Programs		
	Near-Term	**NextGen**	**Engineering**
Air Traffic Control	Operational guidance for Air Traffic Organization	Safety, training, and design of NextGen capabilities	Standards and Guidance for Acquisitions
Flight Deck	Foundation of scientific and technical information supporting Flight	Guidance on NextGen technologies and procedures	

NextGEN

Air Traffic Control Human Factors Research

Task Performance of Controllers and Technical Operations specialists

Facility Placement

Training Needs and On-the-Job Training

Operational Safety and Human Hazards

Information Require
Automation Design

FAA

NextGEN

Flightdeck Human Factors Research

Image from PRNewsFoto/United Continental Holdings, Inc.

- Jet Upset
- Advanced RNAV/RNP flight procedures and depictions on paper and electronic media
- ADS-B applications
- Compliance to new human factors rule 14 CFR 25.1302
- Advanced vision technologies in low visibility
- Rotorcraft
- Fatigue Management
- General Aviation
- Electronic Flight Bags/Portable Technologies

FAA NextGEN

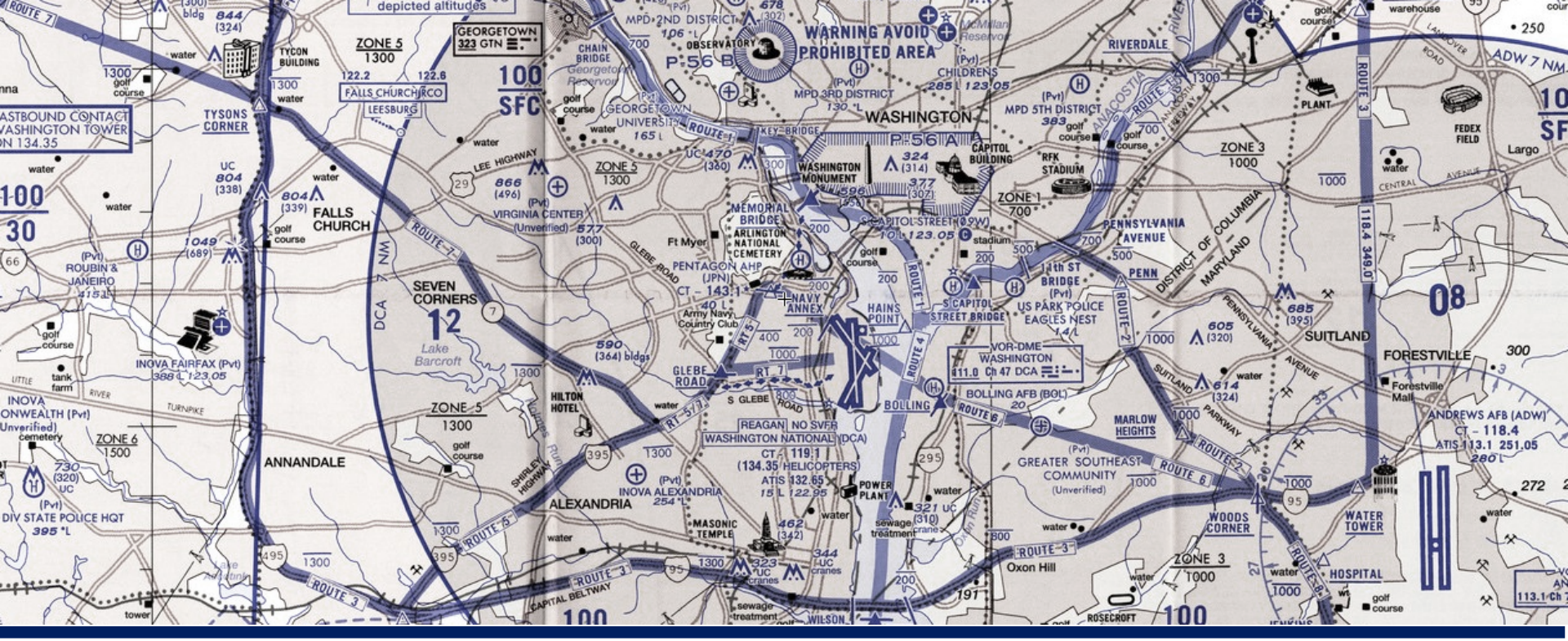
Acquisition Engineering

Integrate human factors into the FAA Acquisition Management System (AMS)

Standards

- Published HF-STD-004, Requirements for a Human Factors Program
- Updating HF-STD-001, Human Factors Design Standard
- Developing standards for Technical Operations on symbols and markings, and abbreviations

Boston Tower



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